

## **Development of a Nuclear Criticality Safety Education and Training Program at UNLV**

### **Executive Summary**

The proposed nuclear criticality safety education and training program at the University of Nevada, Las Vegas (UNLV) will support the nuclear industry including reactors, used fuel storage, and also enrichment and fuel cycle facilities. Within this education and training program, a new nuclear criticality safety (NCS) track will be established as part of the current Master of Science in Materials and Nuclear Engineering degree program at UNLV. This track will include introduction to nuclear criticality safety, Monte Carlo methods, criticality benchmark data evaluations, criticality design calculations, and/or criticality experiments. In addition, we will work with various nuclear criticality safety groups (e.g., NSTec, LANL, URENCO USA) to develop an Independent Study/Selected Topics in Nuclear Criticality Safety course that is specifically targeted at the needs of these groups. These criticality safety courses, geared towards nuclear professionals, will be offered both as “in-house” courses at UNLV and as distance learning education. The result will be an integrated and flexible NCS education and training program to support critical national nuclear workforce issues.

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